
NEWS LETTER OF THE SOCIETY OF AMERICAN BACTERIOLOGISTS

Office of the Secretary-Treasurer

January 1945

Volume XI, Number 1

1945 OFFICERS AND COUNCILORS

President: Stuart Mudd, University of Pennsylvania, Philadelphia, Pa.
Past President: I. L. Baldwin, University of Wisconsin, Madison, Wisconsin
Vice President: James Craigie, University of Toronto, Toronto, Ontario, Can.
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L. S. McClung, Indiana University, Bloomington, Indiana
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W. M. Hale, Iowa City, Iowa--North Central
G. L. Stahly, Columbus, Ohio--Ohio
H. E. Morton, Philadelphia, Pa.--Eastern Pennsylvania
MacDonald Fulton, Dallas, Texas--Texas
Ida A. Bengtson, Bethesda, Maryland--Washington

Invited Members, by Council Action of 1938:

Barnett Cohen, Editor-in-Chief, BACTERIOLOGICAL REVIEWS
A. P. Hitchens, Editor, Section C, BIOLOGICAL ABSTRACTS
L. S. McClung, Program Committee Chairman
J. M. Sherman, Editor-in-Chief, JOURNAL OF BACTERIOLOGY

1945 ANNUAL MEETING

Time: May 22, 23, 24, 25, 1945

Place: Book-Cadillac Hotel, Detroit, Michigan

The time and place of the 1945 annual meeting of the Society of American Bacteriologists were approved by the Council recently by mail vote. Headquarters will be located in the Book-Cadillac Hotel, and the scientific sessions will also be held there. L. S. McClung, Bacteriology Office, Indiana University, Bloomington, Indiana, is Program Chairman. Questions and suggestions concerning the scientific program should be sent to Dr. McClung.

COUNCIL ACTIONS

The Council, by mail vote of January 15, approved the status as retired member for Dr. Laura Florence; approved active membership in the Society for the applicants whose names are included on the list of the new members at the end of this News Letter; and approved the presentation, by the Secretary-Treasurer, of a request for permission to hold the 1945 Wartime Conference at Detroit, to the Office of Defense Transportation. Members should continue with their plans to present their papers and attend the meeting. Members will be promptly notified of the decision of the Office of Defense Transportation.

The Council, by mail vote of January 20, approved the 1944 reports and the proposed 1945 budget; copies of which are included in this News Letter.

COMMITTEE ON MATERIALS FOR VISUAL INSTRUCTION IN MICROBIOLOGY

The Research Laboratories of RCA have given the S.A.B. over 90 electron micrographs of bacteria and viruses. These will be available by purchase at \$1 each or rental for educational purposes in the form of lantern slides ($3\frac{1}{2}$ x 4 inches). Photographic prints up to the size of 8 x 10 inches will be available by purchase so long as photographic paper is obtainable. Appropriate descriptive material is being prepared for each slide. At present the following lantern slides with descriptive material are available from the Chairman, Harry E. Morton, University of Pennsylvania, Philadelphia, 4, Pennsylvania.

Lantern Slide No.	Subject
LS-21	Electron micrographs of <u>Mycobacterium tuberculosis</u> , varieties <u>hominis</u> , <u>bovis</u> , and <u>avian</u> ; <u>M. Leprae</u> ; <u>M. marinum</u> ; <u>M. phlei</u> ; and <u>M. smegmatis</u> .
LS-22	Photograph of chart listing the relative size and shape of various filterable viruses.
LS-23, 24	Electron micrographs of <u>Neisseria gonorrhoeae</u> .
LS-25	Electron micrographs of rickettsiae of epidemic and endemic typhus, Rocky Mountain spotted fever, and American Q fever.
LS-26	Photographs of stained rickettsiae of epidemic and endemic typhus.
LS-27	Electron micrographs of <u>Diplococcus pneumoniae</u> , type 3, and a good Quellung reaction by type 1.
LS-28	Electron micrograph of a fresh water bacterium.
LS- 34 to 44, inc.	Electron micrographs of <u>Escherichia coli</u> and <u>coli bacteriophage</u>
LS-45, 46	Electron micrographs of elementary bodies of vaccinia virus.
LS-47, 48	Electron micrographs of influenza virus particles, types A and B.
LS-49-53, inc.	Electron micrographs of particles of tobacco mosaic virus, cucumber mosaic virus 4, and bushy stunt virus.
LS-54-60, inc.	Electron micrographs of <u>Bacillus anthracis</u> , <u>B. cereus</u> , <u>B. megatherium</u> , and <u>B. subtilis</u> .
LS-61-70, inc.	Electron micrographs of <u>Clostridium tetani</u> , <u>Cl. sporogenes</u> , <u>Cl. botulinum</u> , <u>Cl. perfringens</u> , <u>Cl. histolyticum</u> , and <u>Cl. novyi</u> .
LS-71, 72, 73	Electron micrographs of streptococci.
LS-74-77, inc.	Electron micrographs of <u>Eberthella typhosa</u> .
LS-78, 79	Electron micrographs of <u>Lactobacillus acidophilus</u> .
LS-80, 81, 82	Electron micrographs of fusobacteria.
LS-83, 84, 85	Electron micrographs of <u>Leptospira icterohemorrhagiae</u> and <u>L. canicola</u> .
LS-86-89, inc.	Electron micrographs of <u>Staphylococcus aureus</u> and <u>S. flavocyaneus</u> .
LS-90	Electron micrograph of <u>Mycobacterium tuberculosis</u> , <u>hominis</u> .
LS-91	Electron Micrograph of <u>Mycobacterium tuberculosis</u> , <u>avian</u> .

LOCAL BRANCH NEWS
(Notes from the Secretaries.)

A preface may be of interest to our many new members. Twenty-one Local Branches, spreading from the east to the west coasts, are the means of enabling younger workers to become seasoned in reporting of scientific progress and to become more firmly established among their experienced collaborators. Meetings of the Branches allow frequent discussion of work under way, as well as of completed studies, and promote unity and better fellowship among regional groups. Abstracts of papers presented at these meetings are published in the JOURNAL. News items appear here. The present Director of Local Branches is Dr. O. B. Williams, University of Texas, Austin, Texas and the Branches organized and active at present time are:

Northern California-Hawaii
Southern California
Connecticut Valley
Illinois
Indiana
Kentucky
Maryland
Michigan
Eastern Missouri
Missouri Valley

New Jersey
New York City
Central New York
Eastern New York
North Central
Ohio
Central Pennsylvania
Eastern Pennsylvania
Texas
Virginia

Washington, D.C.

Northern California-Hawaiian Branch: The sixth meeting of the Northern California Branch of the Society of American Bacteriologists was held on the Stanford University Campus on Saturday, July 29, 1944. There were fifty in attendance. The scientific program took place in the Bacteriology Auditorium. The following papers were presented:

Penicillin Production (with demonstrations)	Dr. R. Pratt
Yeast Production (with demonstrations)	Dr. E. C. Saudek
Arginine Metabolism in Neurospora	A. M. Srb
A Lysine Requiring Mutant Strain of Neurospora	A. H. Doermann
Food Preservation	E. M. Mraz

The members of the Society were then privileged to visit the electron microscope and have its use demonstrated and explained by Dr. Marton.

The meeting adjourned to the home of Dr. E. W. Schultz where forty-five enjoyed a most luscious pre-war barbecue.

At the business meeting, which followed, the principal that for the duration we should have one big successful meeting annually was approved and the following officers elected for a two year term:

Chairman: Dr. Harry Humfelt
Secretary-Treasurer: Dr. E. C. Saudek
Councilor: Dr. R. H. Vaughan.

--Charles E. Smith, Secretary-Treasurer

Indiana Branch: At the fall meeting, held November 10th at Butler University, the following officers were elected:

President: P. A. Tetrault
Vice-President: L. A. Weed
Secretary-Treasurer: R. F. Ervin
Director: (two years) E. R. Hupp
Councilor to Society: N. J. Miller

During 1944 thirty new members were admitted to the Indiana Branch bringing their present membership up to 115 persons. --Robert F. Ervin, Secretary-Treasurer

Michigan Branch: (meeting on November 17th, at Detroit)

Preliminary Report of Plans for Detroit Meeting of National Society of American Bacteriologists. H. W. Dunham, Chairman of Local Committee.

Activity of Certain Agents on Experimental Rickettsial Infections in Chick Embryo. A. H. Killinger, Parke-Davis and Co., Detroit.

Two Distinct Diphtheroids Isolated from Cases of Infection of Bovine Pyelonephritis. E. S. Feenstra, Frank Thorpe, and C. F. Clark. Sect. of Animal Pathology. Michigan Experimental Station, East Lansing.

Effect of a Booster Dose of Pertussis Vaccine on Opsonic Response in Children. Pearl Kendrick, Grace Eldering, and M. Thompson. Michigan Department of Health, Grand Rapids.

Electron Microscope and Bacteriology. Malcolm Soule, University of Michigan, Ann Arbor.
-- Elizabeth J. Cope, Secretary-Treasurer

Missouri Valley Branch: (Annual Meeting 1944, December 1-2, Topeka, Kansas)

Friday Afternoon:

1. Streptococci as an Index of the Sanitation of Swimming Pools. E. L. Treese, Department of Bacteriology, University of Kansas, Lawrence.
2. A Study of the Classification of Streptococci Isolated from Swimming Pools. Cassandra Ritter, Kansas State Board of Health, Lawrence.
3. A Simplified Bacteriological Examination of Water. Charles A. Hunter, Eleanor Patty and Flora McKinley, Kansas State Board of Health, Topeka.
4. The Production of 2, 3 Butylene Glycol by Aerobacter aerogenes from Sucrose. Carl E. Georgi and Keith B. McCall. University of Nebraska, Lincoln.
5. A Comparison of the Agglutinin Response of Rabbits to Oral Administration of Typhoid Vaccine at Various Intervals of Dosage. J. Ralph Wells, Ben Love, Jr. and Robertann Stanton. Kansas State Teacher's College, Pittsburg.

Friday Evening:

6:30 p.m. Banquet

8:00 p.m. Address: "Epidemiology and Laboratory Diagnosis of Brucellosis"
Dr. I. H. Borts, Director, State Hygienic Laboratory, Iowa State Department of Health.

Saturday Morning:

6. Soil Temperature and Nitrification as Related to Crop Residue Disposal. T. M. McCalla, U.S. Department of Agriculture, University of Nebraska, Lincoln.
7. The Species Concept as Applied to the Genus Rhizobium. John O. Harris, Kansas State College, Manhattan.
8. Experiments on the Effects of Penicillin on Listerella monocytogenes. Barbara E. Russell and Noble P. Sherwood, University of Kansas, Lawrence.
9. A Comparison of Some Methods for the Isolation of S. pullorum. L. D. Bushnell, Kansas State College, Manhattan.
10. Salmonella Typing and It's Importance in Public Health Laboratories, Flora McKinley, Kansas State Board of Health, Topeka.
11. The Cultivation of Pathogenic Actinomycetes. V. D. Foltz, Kansas State College, Manhattan.

Officer elected:

President: Dr. Noble P. Sherwood

Vice-President: Dr. G. L. Peltier

Secretary-Treasurer: Dr. Charles A. Hunter

Councilor: Dr. J. Ralph Wells

-- Charles A. Hunter, Secretary-Treasurer

New York City Branch: (Twenty-fifth meeting, November 14)

Section on Agrigultural, Food, and Industrial Bacteriology, Louis Lang, presiding:
"New Developments in the Application of the Germicidal Mercury Vapor Lamp in Industrial Microbiology." Dr. I. J. Buttolph, General Electric Company, Cleveland, Ohio.

Section on Medical Bacteriology, Dr. John L. Rice, presiding (program arranged by the staff of Lederle Laboratories, Inc., Pearl River, New York):

"The Testing of Anaerobic Toxins and Antitoxins by the Flocculative Reaction" --C. H. Parsons

"The Incidence and Identification of Pathogenic Shigellae" --A. J. Weil

"The Use of Albumin as a Nutrient for Treponema Pallidum" --P. A. Little

"The Production of Influenza Virus Vaccine" (Read by Title) --D. W. McKinstry

Election of Officers:

President: Dr. Gustav I. Steffen, Bureau of Laboratories,
New York City Department of Health

Vice-President: Dr. Ivan C. Hall, New York Medical College

Secretary-Treasurer: (1945-48) Dr. John E. Blair, Hospital
for Joint Diseases

Councilor to the S.A.B.: (1945-46) Mrs. Mary B. Horton,
Sheffield Farms Company, Inc.

--John E. Blair, Secretary-Treasurer

Eastern New York Branch: (Fall meeting, December 8, Albany, New York)

Program: "Cardiolipin, a New Phospholipid" --Mary C. Pangborn

"Cardiolipin in Macro and Micro Precipitation Tests for Syphilis" --Rachel Brown

"The Reaction of Cardiolipin in the Complement-Fixation Test for Syphilis" --Elizabeth Maltaner and Frank Maltaner

"The In Vitro Effects of N-Substituted p-Aminobenzoic Acid Derivatives upon Sulfonamides with Particular Reference to Local Anesthetics" --George R. Goettkius

"The Antibacterial Effects of p-Aminoalkylbenzenesulfonamides" --Carl A. Lawrence

"Public Health in Mexico" --James E. Perkins

--Myrtle Shaw, Secretary-Treasurer

Eastern Pennsylvania Chapter: (One hundred seventy-sixth meeting, November 28, Philadelphia) Program:

"Some studies on infectious hepatitis" -- Capt. John R. Neefe, M.C., U.S.A.

"Development of penicillin production" -- Dr. G. Raymond Rettow, Reichel Division,
Wyeth Inc., West Chester, Pennsylvania

Election of Officers:

President: Dr. Earl H. Spaulding

Secretary-Treasurer: Dr. Harry E. Morton

-- Harry E. Morton, Secretary-Treasurer :

Texas Branch: (Fall meeting, November 18, Houston) Program, of the day:

"An In Vitro Technique for Testing Spirochaeticidal Agents" --Billie E. O'Bryan and
V. T. Schuhardt, Dept. of Bacteriology, University of Texas, Austin

"In Vitro and In Vivo Activity of Penicillin in Experimental Relapsing Fever" --V. T.
Schuhardt and Billie E. O'Bryan

"Preliminary Report on the Effect of Penicillin on Relapsing Fever and Chagas' Disease" --Donald V. Moore, Div. of Parasitology, State Health Dept., Austin

"Relapsing Fever in Denton County, Texas" (Report on an Infected Case) --Charles L.
Wisseman, Jr., Dept. of Clinical Pathology, Southwestern Medical College, Dallas

"Preliminary Studies to Determine the Morphological Location of the Spirochaete
Borrelia recurrentis in the Tick Ornithodoros turicata, and Its Method of Trans-

mission" --J. H. Sikes and Dorothy A. Kloppe, Entomology and Parasitology Div.
State Health Dept., Austin

- "The Bactericidal Activity of Cod Liver Oil" --C. A. Ross, Surgical Research Laboratory, University of Texas Medical Branch, Galveston, Texas
- "Variability of Staphylococcus aureus" --W. B. Sharp, Dept. of Bacteriology, Univ. of Texas Medical Branch, Galveston, Texas
- "Comments on the Recent Reclassification of Enterobacteriaceae" --MacDonald Fulton, Dept. of Bacteriology, Southwestern Medical College, Dallas
- "Growth in Association in Tetrathionate Broth of E. Typhosa and A. aerogenes" ---O. B. Williams and E. S. Wynne, Dept. of Bacteriology, Univ. of Texas, Austin
- "Coccarboxylase as a Growth Factor for Certain Strains of Neisseria gonorrhoeae" --Charles E. Lankford and Priscilla Kringle Skaggs, Dept. of Obstetrics and Gynecology, University of Texas Medical Branch, Galveston
- "The Significance of the Block Test in Erythroblastosis" --Sol Haberman, J. M. Hill, and Shirlee Truby, Wm. Buchana Blood Serum and Plasma Center, Baylor Hospital and Dept. of Clinical Pathology, Southwestern Medical College, Dallas
- "Observations on the Culture of Endamoeba histolytica" Donald V. Moore and Sarah B. Lyon, Div. of Parasitology, State Health Dept., Austin
- "Recovery and Identification of Virus of Lymphocytic Choriomeningitis" ---J. V. Irons, S. W. Bohls, Oleta Beck and Lill R. Skinner, State Health Dept., Austin
- "Blood Histamine and Guinea Pig Anaphylaxis" "Studies in Specific Desensitization" Ruth A. C. Foster, Dept. Bacteriology, The University of Texas, Austin

Officers for 1945:

President: Dr. O. B. Williams
Vice-President: Dr. MacDonald Fulton
Secretary: Dr. Arthur R. Colmer
Treasurer: Mrs. E. B. M. Cook
---Arthur R. Cohen

- Washington, D.C. Branch: (One hundred and fortieth meeting, November 28)
- Program: "Studies of various salts of penicillin" --Henry Welch, C. W. Price, Volma Chandler, Jean K. Nielsen, Ruth P. Davis, and Mary K. Carey. Food and Drug Administration.
- "The toxicity of DDT of oral, parenteral and cutaneous administration" --O. C. Calvery, Food and Drug Administration.
- "Observations of the oral spirochetal flora" --Edward G. Hampp, National Institute of Health.
- A. M. Griffin, Secretary-Treasurer

AFFILIATION WITH OTHER GROUP

The Society is affiliated through representation with the five following organizations:

1. American Association for the Advancement of Science
2. American Type Culture Collection
3. International Association of Microbiologists
4. National Research Council
5. Union of American Biological Societies

Our representatives to the Union of American Biological Societies found it impossible to attend the annual meeting of the Council which was to be held at Western Reserve University September 13, 1944 and President Baldwin appointed Dr. Randall L. Thompson representative pro tem. Dr. Thompson's report to the Society on this meeting follows:

"The first topic discussed was the teaching of biology in secondary schools; a report from the Committee which had investigated this subject was presented. In June, Chairman Riddle attended a meeting of the American Medical Association's Committee on Hygiene and Public Health in an effort to obtain endorsement for the proposal that secondary schools offer two years of instruction in biological subjects. The A.M.A.

previously had taken action on this subject and expressed its views as follows: 'We are reluctant to urge biologic instruction on the schools until we have reason to believe that there is teaching personnel capable of handling the subject in a really constructive way' (J.A.M.A., June 24, 1944, page 571). The Committee requested that it be discharged; this was done and unexpended funds were transferred to the American Biology Teacher.

"The cooperative Committee on Science Teaching reported the completion of its work on Wartime Modifications of the Secondary School Curriculum. The majority of the Committee would like to have the sponsoring Societies pass resolutions favoring Senate Bill S1946. This Bill recommends that the teaching of science and mathematics, which are basic to the technical vocational curricula of the Bill, be subsidized with Federal Funds; the Committee favors this action only for public schools. The Committee believes that Mr. J. W. Studebaker, Commissioner of Education, would like to have the Cooperative Committee become an advisory committee on science education for the United States Office of Education; such action could be taken only after the Societies which sponsor the Committee request that it be done.

"President Butler of the U.A.B.S. reported that the booklet on 'Graduate Instruction and Research in the Biological Sciences in the United States', which is being prepared for circulation among Latin-American biologists is about ready for distribution. Both Spanish and Portuguese translations are being printed.

"Dr. Flynn reported that BIOLOGICAL ABSTRACTS is past its crisis and is now on reasonably stable grounds.

"The possible role of the Union as a 'Centralizing Agency for Biologists' was discussed but no action taken. It was pointed out that the Government had been able to turn to the Institute of Physics for advice during the War but that there was no unified existing channel for consultation with biologists." --R. L. Thompson

BOOK REVIEWS

THE MICROBIOLOGY OF FOODS - Second Edition. Fred Wilbur Tanner. Garrard Press, Champaign, Illinois (1944) 1196 pages. \$12.50

"Since 1932 the first edition of Dr. Tanner's book has served as the standard text on the subject of food bacteriology. The greatly enlarged 1944 version which constitutes the second edition augments the information presented in the earlier edition by bringing reviews of literature up to date, expanding discussions of some phases of the subject matter and adding a new chapter devoted to vitamin assay procedures. The chapters on food preservation, butter, cheese and vegetables have been more than doubled. Practically all the chapters of the earlier edition have been expanded.

"Essentially the book represents an exhaustive review of the literature, presenting for the reader an excellent bibliography comprising of nearly 5,000 citations to published articles, as well as selected lists of reference books, in connection with 19 of the 26 chapters of the book. Dr. Tanner has searched far back to the beginnings of food microbiology both in this country and abroad, enabling the reader to follow developments in the field in chronological order since careful attention to dates of the citations permits appraisal of the value of certain early work in the light of subsequent corrective observations.

"The scope of the book is greater than would be expected from its title. Chapters are presented on The Bacteria, Yeasts and Molds, Intestinal Bacteriology, and Vitamins. Indeed in many places in the book considerable space is devoted to matters more technological than microbiological but such discussions of technology appear inseparable from the basic subject matter of the book and lend value to it as a reference volume. For the college student the book serves as a splendid text. For the industrial control bacteriologist and research worker in food bacteriology, it is an encyclopedia of information. In many spots but perhaps too infrequently, the author

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by casting his own vote on controversial subjects rescues the reader who is seeking authoritative conclusions. On some topics, notable the unreliability of so-called total counts, the inefficacy of ultra violet light as an agent of food preservation, the attitude of food control officials toward the use of chemical preservatives and the potential dangers of home canning, the author writes with feeling and emphasis. Whether or not the reader agrees with all the conclusions presented, these passages are provocative of careful thinking.

"The book has remarkably few errors. It constitutes a valuable reference in any library of bacteriological literature and should be recognized as absolutely indispensable to all libraries concerned with problems of food conservation and spoilage."

—Albert C. Hunter

NEWS ABOUT OUR MEMBERS

Dr. Jean Broadhurst has been unanimously elected an Honorary Member of the New York City Branch, Society of American Bacteriologists.

Brig. Gen. S. Bayne-Jones, Deputy Chief of the Division of Preventive Medicine, A.U.S., presented a paper on "Control Typhus" at the open meeting of the National Academy of Sciences.

Miss Alice L. Chinn, formerly at the National Institute of Health, Bethesda, Maryland, is now at the Los Angeles County General Hospital and resides at 600 E. Garfield Avenue, Glendale, 5, California.

Dr. Madeline F. Coleman is now a biochemist at Sharp and Dohme, Medical Research Division, Glenolden, Pennsylvania.

Dr. Arthur R. Colmer of the Department of Botany and Bacteriology of the University of Texas at Austin is now Secretary of the Texas Local Branch succeeding Dr. Gordon Worley, Jr., who resigned to join the Navy.

Dr. Milton J. Foter, formerly of the Department of Bacteriology at the University of Connecticut, has recently joined the Wm. S. Merrell Co. of Cincinnati as Chief of that organization's Bacteriology Division.

Dr. R. G. Green, of the University of Minnesota, was awarded honorable mention by the Foundation for the Study of Cycles for his paper: "Virulence of Tularemia as Related to Animal and Arthropod Hosts."

Dr. Thomas C. Grubb, formerly of the School of Pharmacy of the University of Maryland, is now with the Vick Chemical Company in New York.

Dr. Vera M. Hanawalt, formerly at the University of Illinois is now teaching at Pomona College and is to be addressed at Room 201, Mason Hall, Pomona College, Claremont, California.

Dr. R. W. Harrison, Professor of Bacteriology at the University of Chicago, is now also Dean of the Division of the Biological Sciences. Former Dean, W. E. Taliaferro, has been appointed advisor to the President in the biological sciences and continues to serve as the chairman of the Department of Bacteriology and Parasitology.

The Public Health Society of the University of Pennsylvania recently organized, held its inaugural dinner November 8 with Dr. A. F. Hitchens, now health officer of Wilmington, Delaware as guest of honor. Dr. Stuart Mudd was among the speakers.

Dr. Edwin H. Lennette of the Rockefeller Foundation who has been in Brazil for the past three years is now located at the Research Laboratory (Influenza study,) 1392 University Avenue, Berkeley, 2, California

Dr. Carl C. Lindgren of Washington University recently spoke at Purdue University before the Sigma Xi on "The Improvement of the Industrial Yeast" and before the Biology Club on "The Inheritance of Adaptive Enzymes in Yeast."

Major Champ Lyons has been awarded the Legion of Merit in recognition of his work whereby penicillin "has been utilized in the treatment of the seriously wounded."

Dr. J. Douglas Reid, associate professor of bacteriology and parasitology at the Medical College of Virginia, has been appointed acting head of the Department,

succeeding Dr. Frederick W. Shaw, who was made research professor of Bacteriology.

Dr. Howard Reynolds, former address Iowa State College, Ames, Iowa is now at Beltsville Research Center in the Bureau of Human Nutrition and Home Economics, Beltsville, Maryland.

Dr. R. B. Spencer, Director of the National Cancer Institute recently received the Clement Cleveland Award of the American Cancer Society.

Dr. Morris A. Stewart has returned to the University of California after three months spent in Bolivia, where he was made honorary Professor of Parasitology of the Instituto Superior de Medicina Veterinaria and the Instituto Oriental de Biologie.

Dr. H. H. Thornberry has been released from active military duty and placed on an inactive status as Associate Chief in Antibiotic Research at the University of Illinois.

IN MEMORIAM

Sir John Ledingham, C.M.G., F.R.S.
1875 - 1944

"Sir John Ledingham died in London, England, on October 4th after a short illness. In his death the Society of American Bacteriologists has lost one of its most eminent corresponding members:

"Sir John Ledingham was born at Boyndie, Banffshire, Scotland, in 1875. He graduated in medicine in 1902 after a brilliant student career at the University of Aberdeen. He joined the staff of the Lister Institute in 1905 and became Chief Bacteriologist in 1909. Sir John received the C.M.G. in 1918 for his services in the war of 1914-1918 and was elected to the Fellowship of the Royal Society in 1921. In 1931 he succeeded Sir Charles Martin as Director of the Lister Institute and he held this responsible post until his retirement in 1943. He was knighted in 1937.

"As S. P. B. writes (Lancet, October 21, 1944) -

'His qualities were not showy ones and those he possessed he did not parade.' Nevertheless, his scientific integrity, wide knowledge, and sound judgment and services to his country's science were widely recognized.

"It will be recalled that he was President of the Second International Congress for Microbiology which was held in London in 1936. Sir John was elected a Corresponding Member of the Society of American Bacteriologists in 1938.

"Sir John's devotion to research was unbounded but he was also a capable administrator and guided and inspired many contributions to scientific knowledge. One of his earliest and outstanding contributions was a book written jointly with Sir Joseph Arkwright entitled "The Carrier Problem in Infectious Diseases" which was published in 1912. He was an Associate Editor and a notable contributor to the Medical Research Council's "System of Bacteriology" 1930-1931 and "Treatise on Diphtheria" 1933. Some thirty papers were published under his name or in collaboration with others during the period 1920-1943. He had a deep interest in virus diseases. His independent, unbiased work on Paschen bodies was characteristic and his later demonstration that vaccinia and fowlpox elementary bodies are specifically agglutinated by immune serum marked an important advance in our knowledge of the larger viruses."

--James Craigie

MISCELLANEOUS NEWS ITEMS

The deaths of three bacteriologists, not at the time of their death members of the Society, is recorded: Dr. Jane Burns Hershey of St. Louis, Dr. Israel J. Kligler of the Hebrew University of Palestine, and Sir Joseph Arkwright of England.

Miss Ann Gross, who served the Society for several years as capable and gracious assistant to the Secretary-Treasurer, is now Private Ann Gross of the Marines.

The appointment of Dr. George A. Works, of the University of Chicago, to succeed Dr. Leonard Carmichael as Director of the National Roster of Scientific and Specialized Personnel was announced recently by Paul V. McNutt, Chairman of the War Manpower Commission.

"Preservation of Food Values" is to be the central theme for the Sixth Annual Conference of the Institute of Food Technologists to be held at the Hotel Seneca in Rochester, New York, May 21, 22, and 23 with food technologists of Western New York as hosts. Papers which may be of special interest to bacteriologists are to be placed on the first session of the Conference so as to avoid conflict with our Second Wartime Conference in Detroit the same week.

The Institute of Food Technologists was organized in Cambridge, Massachusetts, at the close of the Second Conference on Food Technology held under the auspices of the Massachusetts Institute of Technology. Its 1944-45 officers are: President Dr. F. C. Blanck; Chief Research Chemist, H. J. Heinz Company, Pittsburgh, Pa.; Vice-President, Dr. R. H. Leuck, Director of Research, American Can Company, New York, New York; and Secretary-Treasurer, Dr. George J. Hucker, New York Agricultural Experiment Station, Geneva, New York.

BACK NUMBERS OF THE SOCIETY PUBLICATIONS

Several requests are on file for out of print numbers of the Society's publications. If any members have the copies indicated which they would be willing to donate, exchange or sell, the Secretary-Treasurer will be glad to act as a clearing house. Wanted:

News Letter - Volume I; Number 2 of Volume II

Journal - Volumes I-XL including index to Volumes I-XXX; Volume XLVII; Volume XXXI, #2; Volume XV, #1; Volume VIII, #5 and 6; Volume I, II, III, IV, and XI.

Reviews - Volume I; Volume VI, Page 1-36; Volume VIII

Abstracts - Volume VII

Members having copies of the Journal of Bacteriology, Bacteriological Reviews or of Bacteriological Abstracts for which they have no further use will confer a favor on other members of the Society, by forwarding them to the Secretary-Treasurer who will store them. They are dispensed without expense to those who make requests within the limits of equity to all members, a.g., we can hardly be expected to donate complete sets or runs of several volumes, whereas, we are happy to send single or even several numbers if we chance to have them available. Those having sets or runs they would part with at a price should write us. As noted above such are in demand and we may be able to bring demand into touch with supply.

ANNUAL REPORTS

A

Secretary-Treasurer:

At the Forty-fifth General Meeting of the Society held in New York City, May 3-5, 1944, Dr. W. C. Frazier presented a report which supplemented his 1943 annual report as Secretary-Treasurer. At this meeting Dr. Frazier's resignation was, with regret, accepted by the Council and I was appointed as the new Secretary-Treasurer, and assumed the duties of office June 1, 1944.

General remarks relative to the period of Secretary-Treasurership thus far served need not be extended. The office was moved from Madison, Wisconsin to Washington, D.C. New stationery and printed forms have been required. New arrangements for putting out the News-Letter have had to be made and two numbers have gone out from the new office. Obviously, under the circumstances, expenses of the office have been high. They should be less in 1945, thanks to supplies in hand, but it must be pointed out that the Society has now grown to a size and taken on a function which costs money to maintain.

The funds and resources of the Society were transferred to Washington and U.S. Bonds have been purchased, as authorized by Council vote, and added to those already in the possession of the Society. The membership has continued to grow and the organization is in sound financial condition.

It will be the endeavor of the Secretary-Treasurer to continue the high standards of the office evolved and practiced by his predecessors. All services to the membership will be rendered which can be accomplished within the limits of our time and financial restrictions and which are fair and equitable to all the members of the Society.

Data for the period ending December 16, 1944 relative to the various categories of membership and to Society finances follow:

Membership: The total active membership of the Society December 16 was 2158. If to this number are added 14 Corresponding Members, 4 Honorary Members, 29 Retired Members and 62 Sustaining Members, the grand total of membership becomes 2267. At a corresponding period in 1943, the grand total was 1977; in 1942 it was 1854; and 1941 it was 1697; and in 1940 it was 1500. There have been 9 deaths of active members and 1 death in the ranks of Corresponding Members (Sir John Ledingham). There were 21 resignations as against 11 in 1943 and the temporary lapse list increased from 11 in 1943 to 63 in 1944. In 1944 there were 136 members delinquent for one and two years which figure in 1943 was 166. Fewer members have paid up their dues for the current year than was true at a similar date in 1943, but remittances are being received daily and there is no fear of real loss of membership. But it should be noted that the Society is receiving new members in larger number than before and paper is scarcer. There is danger that the publishers may not be able to furnish all 1945 publications to members who delay too long in making payments covering their 1945 dues.

Finances: The books of the Society were audited for the two and one-half year period December 14, 1941 to May 31, 1944, by Elwell, Kiekhof and Company of Madison, Wisconsin. The Company was "pleased to report that the books have been neatly and accurately kept." They also approved the operation of the voucher system for the authorization, payment and filing of bills which has been the office procedure for the past three years. The net worth of the Society, December 16, 1944, is \$38,359.70 as compared with \$37,165.78 in 1943. The estimated liquidation value which is the net worth plus interest due on bonds, value of bonds above par, and the Society share in the Journal of Bacteriology profits for 1944 is \$44,052.51 and probably several hundred dollars more since the share in profits was estimated at \$3,000.00 whereas in 1943 it was actually \$3,861.23.

The actual liquidation value in 1943 was \$43,794.57. In addition the Society owns a typewriter, old addressograph, and minor office properties plus a considerable stock of envelopes, stamps and paper. These items have not been included as assets in this report but they may be so considered.

Budget Statement: for the period December 16, 1943 to December 16, 1944.

	Allotted for 1944	Expended	Proposed for 1945
Archives Committee	20.00	20.00	40.00 (1
Bacteriological Reviews	125.00	130.06	130.00
Biological Abstracts	1,000.00	1,000.00	Council Action*
Exchange and Taxes	10.00	9.54	10.00
Jour. Bact. Editor, Misc.	200.00	200.00	200.00
Jour. Bact. Editor, Sec'y	400.00	400.00	400.00
Committee on Materials for Visual Education in Microbiology	1,000.00	150.00	500.00
Printing	200.00	239.32	225.00
Program Committee	800.00	733.72	700.00 (2
Sec'y-Treas., Misc.	1,300.00	1,422.26	1,200.00
Sec'y-Treas., Sec'y	2,300.00	2,216.67	2,400.00 (3
Winslow Celebration Committee	150.00	102.45	
	7,505.00	6,624.02	5,805.00

Notes: * The Council has voted and the Society has paid \$1,000.00 to Biological Abstracts in recent years. It may be taken as \$1,000.00 for purposes of a general understanding of the budget, but there is ~~no vote on record for 1945 as yet and the matter is under study.~~

- 1) To include recording of a certain program at 1945 meeting of interest to the Archives.
- 2) The needs of the Program Committee vary according to place and nature of meeting held.
- 3) The salary of the assistant to the Secretary-Treasurer was set by Council vote in June, 1944 at \$2,600.00; prior to June 1, it had been less than that. A change in personnel permits the reduction indicated for 1945.

-- Leland W. Parr

Committee of Auditors:

The Committee appointed by the President to audit the accounts of the Secretary-Treasurer of the Society of American Bacteriologists reports as follows: The books of the Secretary-Treasurer were examined on January 10, 1945. They were found to be in good order and the accounts appeared to be true and correct. The Secretary-Treasurer is to be complimented on the orderly arrangement of the material submitted to the Committee. --Nathan R. Smith, Chairman, Elizabeth Verder, Robert Stern.

Committee of Tellers:

On 18 December 1944, the Committee of Tellers examined the ballots cast by members of the Society of American Bacteriologists. The Tellers wish to report the election of the following: President-- Dr. Stuart Mudd; Vice-president -- Dr. James Craigie; Secretary-Treasurer -- Dr. Leland W. Parr; Councilors -- Dr. George M. Cameron and Dr. William V. Halversen; Honorary Member -- Dr. O.T. Avery.
-- Lt. Comdr. W. B. Sarles, Chairman, Sara E. Branham,
Ralph P. Tittsler.

Journal of Bacteriology:

A summary of the operations of the Journal, July 1 to December 1, 1944 is given in the tabulation which follows. It will be noted that as of December 1, 1944, there were accepted manuscripts on hand which will consume the Journal's paper allotment through the April, 1945, number. Many more manuscripts of an excellent quality have been received than it is possible to publish within the Journal's paper quota.

Accepted papers on hand July 1, 1944	54
Manuscripts received (July 1 to December 1, 1944).	99
Manuscripts rejected (July 1 to December 1, 1944).	19
Papers published and scheduled (July-December, 1944)	96
Accepted papers (December 1, 1944) for 1945 publication.	57

Total manuscripts (July 1 to December 1, 1944). 153

— J. M. Sherman, Editor-in-Chief

Bacteriological Reviews:

1. The following tabulation gives a comparative survey of our operations since 1937.

Vol.	Papers Rec'd	Withdrawn or Rejected	Papers Published	Carried Over	Pages Pub'd	Editorial Cost
1	2	0	1	1	98	50.00
2	3	0	4	0	216	86.24
3	9	3	5	1	228	94.19
4	10	3	8	0	320	125.93
5	14	5	8	1	374*	150.00
6	11	4	6	2	252**	152.66
7	6	3	5	0	264	80.06
8	8	1	7	0	260***	117.75

*Old format

**New format (equivalent to 360 pp. old format)

***Estimated

2. It will be noted that the total bulk of material published in Vol. 8 is about the same as in preceding years in spite of paper restrictions and a low influx of manuscripts.

3. The members of the Society might be reminded again that manuscripts suitable for Bacteriological Reviews are solicited.

4. We are fortunate in obtaining as Associate Editor, Dr. C. B. vanNiel who succeeds Dr. J. M. Sherman, now Editor-in-Chief of the Journal of Bacteriology. Grateful acknowledgment is made of the labors and advice of our Associate Editors, and of our anonymous referees.

5. A balance of \$7.25 remains in the account which will be carried over to next year. — Barnett Cohn, Editor

Program Committee:

The News Letter of June 1944 contains a report of the activities of the committee for the preparation of the program for the New York meeting. Since the time this report was prepared the scheduled meeting has been held and perhaps a few comments concerning it would be appropriate. The 45th meeting held in New York City on May 3 through 5, 1944 seems to have been one of the most successful in the history of the Society, if comments which have been received

by the Program Committee may be used for evaluation. Despite wartime conditions the registration was the highest (slightly over 1500) we have ever had. The crowded session rooms indicated that the members did not come to the convention just for a trip to New York but were interested in the various events taking place. On several occasions during the convention, including the evening round table series, a rough count of the total people in the various session rooms revealed the fact that more than 1,000 were in attendance. It is evident from the interest in the evening events that almost any topic scheduled will draw a crowd of 100 or more and this proposes a serious problem to future meetings. It seems that we will be forced to limit the number of meetings at any one time to the number of large rooms available. On the whole members cooperated relatively well with regard to maintaining the time schedule allotted.

The unexpectedly high registration (some of our advisors had suggested that we might have less than normal registration) meant that many who registered did not receive a copy of the program and the reprint material since the supply was exhausted long before registration was completed. It is to be hoped that we can avoid this shortage in the future. On the whole, however, everyone seemed to realize that the convention was planned and being held under unusual conditions and made the proper personal adjustments. The Local Committee, headed by Mrs. Mary B. Horton, deserve considerable credit and a great many thanks for the efficient handling of the details of the staging of the meeting, particularly when it is realized that only six of seven months were available to them after the final decision to have the convention in New York.

In order to relieve the crowded schedule of the program the committee has obtained Council approval to extend the 1945 meeting over a period of four days. In addition to considerable correspondence, the committee has had one meeting and the plans for the Detroit meeting are progressing. We intend to continue the system of one or more invitational addresses in addition to the other usual features of the program. Details concerning these will be released at the appropriate intervals.

The Chairman of the Program Committee has prepared, during the year, a series of memoranda which are intended as guides to the Local Committee for details on hotel and other arrangements. These, or information concerning them, will be available to any group contemplating inviting a National meeting. Correspondence is invited from representatives in areas where our convention has not been held in recent years. --- L. S. McClung

War Committee on Bacteriology:

It will be recalled that a complete report of this Committee was submitted at the meeting of the SAB in New York last May; since then no meeting of the committee was held. However, every one of the members of this committee is heavily engaged in war activities. I am sure that when the whole story can be told that it will be found that this committee has acted through its individual members rather than as a whole and has contributed in many ways to the war effort in the various aspects of microbiology. -- S. A. Waksman, Chairman

Committee on Teaching:

The activities of this Committee during this year have been largely confined to the preparation for the Session on Teaching of Bacteriology which was held during the morning preceding the official opening of the Annual Meeting last May in New York. The topic was one chosen for the meetings at Columbus, Ohio, December 1942, which were cancelled, and essentially the same program was carried out.

E.

At least two hundred persons attended this session and, following the formal papers, there was interesting and constructive discussion from the floor. There was evidence of a strong desire to repeat the teaching session at the meetings in Detroit next May. Accordingly, plans are in progress for such a session. It is too early to announce the topic, but there is a consensus of opinion among the committee members that it should concern either introductory courses in bacteriology or technical training courses.

At the annual meeting of the committee in May the following actions were taken.

1. This committee feels that, whenever possible, Bacteriology should be placed on a par with other sciences in educational institutions and not hold the subordinate place it now occupies in many of our colleges and universities.
2. This committee recommends to the Society that it continue to provide for half day sessions, devoted to the consideration of teaching problems at the annual meeting and that such sessions be held at a time when there is least competition from section, group or round table discussions.
3. The committee voted to go on record in favor of a review by the Editorial Board of the Society in relation to its policy concerning the publication of papers which deal with educational matters, especially those which relate to instruction in this science.

--- Elizabeth F. Genung, Chairman

Committee on Bacteriological Technic:

The Activities of this committee during 1944 have been of a somewhat routine nature and have been primarily connected with the loose-leaf publication, The Manual of Methods for Pure Culture Study of Bacteria. The committee is responsible for keeping this manual up to date, by occasionally revising the leaflets of which it is composed. During 1944 the following leaflets have been revised: Leaflet I, Introductory; Leaflet II, Preparation of Media; Leaflet V, Routine Methods for Descriptive Chart. Of these, the revision of Leaflet II was particularly comprehensive, and entire new section was prepared by Dr. L. S. McClung, the Committeeman on Anaerobic Methods.

Sales of the Manual and of the Descriptive Chart have continued through the publishing agency, Biotech Publications, as has been the case for quite a number of years. Royalties turned in by this publishing agency and transmitted to the Society Treasurer through this committee have totaled \$440.18 during the last 12 months.

The committee has also been cooperating with the Biological Stain Commission on which the committee chairman is the Society's representative. This phase of the work has become increasingly important during recent years because of the great demand for stains by the Army and Navy.

Royalty statement for the eleven months ending Nov. 15, 1944

Receipts:

From the sale of charts	\$291.25
From the sale of Manuals	848.00
From Pure Culture Study Subs.	813.00
From Pure Culture Study Advg.	85.19
	<u>\$2,037.44</u>

Royalty Due

15% of total receipts up to November 15		\$305.62
Already Paid:		
Mar. 15	79.10	
June 20	76.22	
Oct. 25	92.02	
	<u>-247.34</u>	
Balance due and sent with report		\$ 58.28

--- H. J. Conn, Chairman

Committee on Archives:

(A) Collection of records. Several important items have been added to the Society's Archives. Dr. H. J. Conn has presented a copy of a letter from Prof. H. W. Conn to his wife announcing his election as President of the Society for 1902. Dr. Paul F. Clark has presented a copy of his "Alice in Virus Land". Prof. C.-E. A. Winslow has deposited his files of 1915-1917 relating to the Journal of Bacteriology, and of 1918-1919 relating to the Committee on Classification.

Of considerable historical and bibliographic importance is the compilation of early American publications in bacteriology published by Dr. L. S. McClung. (Bact. Rev., 1944, 8, 119-160).

(B) History of the Society. The war situation has slowed activity in this field. We record with regret the passing of Prof. Stephen H. Gage, dean of American microscopists, who undertook at our suggestion the recording of American contributions to microscopy. This task was completed and we understand that it may be published within a year or so.

Materials for a history of bacteriology in Indiana have been collected at the instance of Dr. McClung. (Proc. Indiana Acad. Sci. 1944, 53, 59; J. Bact., 1943, 46, 576).

An incomplete manuscript of the history of bacteriology in California by Dr. K. F. Meyer and Dr. C. E. McClung has been deposited in the Archives.

The MS of a valuable biography of Prof. H. W. Conn, third President of the Society, written by Dr. H. J. Conn has been deposited in the Archives.

-- Barnett Cohen, Chairman

Committee of the Inter-American Society of Microbiology:

No meetings were held during the year. Under existing conditions it was not deemed advisable to explore the relationships of the workers in microbiology on the American continent.

-- K. F. Meyer, Chairman

Committee on Materials for Visual Education in Microbiology:

The work of the Committee is gaining momentum. There are more demands this year for the rental or purchase of films which the Committee distributes. The demand for abstracts of films has greatly increased from individuals who are not members of the Society of American Bacteriologists. Individuals are more frequently offering films or suggesting new sources of films which might be useful in the teaching of bacteriology.

We have many requests for electron micrographs of bacteria and at the present time RCA has made duplicate negatives of nearly 100 electron micrographs of bacteria, rickettsiae, and viruses. Prints and lantern slides have been made from these negatives and about 75% of them are ready for delivery and the remainder are in transit from the photographers. We have been informed that we may expect delivery of the complete set any day. I put off writing the report until the latest possible date with the hope that I would be able to report that the electron micrographs had been received.

There is a movement under way in Great Britain to locate, review and evaluate medical motion picture films. This past week I received a communication from one of the organizations working along those lines and we are going to exchange information on films pertaining to bacteriology. Since last spring we have been in communication with the Office of Inter-American Affairs and have been able to supply them with information on films pertaining to bacteriology. They, like many others, have expressed great interest in the electron micrographs and before long we hope to be in a position to fulfill their requests.

G.

Financial Statement. The following is a condensed statement of the financial condition of the Committee on Materials for Visual Instruction in Microbiology.

Receipts:

Balance as of May 11, 1944	\$ 37.905	
Received from S. A. B.	100.00	
Received from sales of abstracts, films, slides, prints and rental of films	<u>187.83</u>	\$325.735

Expenses:

Postage	\$ 31.125	
Secretarial Service	21.35	
Telephone Service	11.94	
Travel Expenses	2.73	
Printing & Mimeographing	101.16	
Films, slides, prints, etc.	<u>118.67</u>	<u>298.045</u>

Balance as of December 13, 1944		\$ 38.76
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There are outstanding bills due the Committee to approximately \$75.00.

--Harry E. Morton, Chairman

Committee on Certification of Public Health Personnel:

No meeting held during the year and no problems presented. In view of post-war readjustments, I plan to canvas the situation during 1945.

--K. F. Meyer, Chairman

Employment Bureau: October 15, 1943 to December 1, 1944 - Financial StatementBalance and Income

Balance as of Statement Oct. 15, 1943	\$229.15	
Income from successful applicants	65.65	
Interest on bank balance June 1, 1944	<u>1.11</u>	295.91

Expenditures

Postage	13.05	
Stationery and printing	7.95	
Secretarial assistance	<u>30.00</u>	
	51.00	
Balance on hand	<u>244.91</u>	295.91

Summary of Bureau Activity

Openings received	62
Applications submitted	397
Vacancies filled	5*
Vacancies pending	7
Number of applications active	44

* One successful applicant died shortly after accepting a position, and the fee was not paid. Another applicant has paid one-third of the fee to date.

--C. S. Pederson

Committee of the American Type Culture Collection:

In the year ending December 15, 1944, the Collection distributed 7623 cultures not including 333 exchanges. This is an increase of 1643 cultures over the number sold in 1943. Of the cultures sold 4112 went to institutions and 3305 to commercial houses. The latter market is increasing at the rate of nearly 1000 cultures annually. There has also been an increase in the number of cultures sent to foreign

countries which, in the last year, included China, India, Australia, New Zealand and Egypt as well as a number of central and South American countries.

The increasing business has made it necessary to enlarge the staff which now consists of the curator, three full time bacteriologists, a full time secretary and a part time laboratory helper. The full time of one bacteriologist is given to taxonomic work on the collection. This work, which is carried on in laboratories furnished by the Bureau of Plant Industry of the Department of Agriculture, includes checking the cultures for purity and correctness of labeling as well as purely taxonomic work on one of the spore forming groups.

The financial situation, as indicated by the following statement, continues to be satisfactory.

Income, year December 16, 1943 to December 15, 1944

Contributions	\$ 800.00	
Returns on investments	232.00	
Sale of cultures	<u>15,933.27</u>	\$16,965.27

Expenditures

Salaries including taxes	11,701.30	
Supplies	898.99	
Postage, express, office expenses	1,002.93	
Georgetown University	600.00	
Refunds	33.05	
Balance forward	<u>2,729.00</u>	\$16,965.27

Assets as of December 15, 1944

Bank Balance	6,820.96	
Stocks and bonds	11,911.50	
Accounts receivable	<u>1,483.17</u>	20,215.63

Liabilities

Accounts payable	00	
Balance forward	<u>20,215.63</u>	20,215.63

Budget for December 16, 1944 to December 15, 1945

Estimated income		
Contributions	800.00	
Returns on investments	232.00	
Sale of cultures	<u>16,000.00</u>	17,032.00
Estimated expenses		
Salaries including taxes	14,160.00	
Supplies	900.00	
Postage, office expenses, etc.	1,200.00	
Georgetown University	500.00	
Contingent expenses	<u>272.00</u>	17,032.00

--L. A. Rogers, R. E. Buchanan, Society of American
Bacteriologists Representatives

- Adams, Stuart L., 2816 Virginia Avenue, Louisville, 11, Kentucky
Alvord, Katherine, 3900 Reservoir Road, N.W., Washington 7, D.C.
Apat, Joseph K., 717 E. Buffalo Street, Ithaca, New York
Arzberger, Fred C., Commercial Solvent Corporation, Terre Haute, Indiana
Applesman, Milo Don, 1018 West Hill Street, Champaign, Illinois
Bachman, Gloria, 38 Fairway Drive, West Orange, New Jersey
Barnum, Donald A., Dept. of Bacteriology, Queen's University, Kingston, Ontario
Begley, Henry L., Western Regional Research Laboratory, Albany, 6, California
Boncy, Paul, Bacteriology Office, Indiana University, Bloomington, Indiana
Brosius, William L., 2349 Leslie Avenue, Detroit, 6, Michigan
Bushnell, Oswald A., Capt., 2747-A Liliha Street, Honolulu, 3, Hawaii
Buskirk, Harold, 403 Parker Avenue, Kalamazoo, 56, Michigan
Buttolph, L. J., Nela Park Engineering Division, Cleveland, 12, Ohio
Calnan, Dorothy, 1841 Irving Street, N.W., Washington, 10, D.C.
Collins, Nancy Jane, San Jose Boulevard, Jacksonville, Florida
Cook, A. Stanley, P. O. Box 364, St. Laurent, Montreal, Canada
Cotner, F. B., Montana State College, Bozeman, Montana
Covert, Nancy, 52 - 15th Avenue, Columbus, 1, Ohio
Crowley, Mary F., 2 Dever Street, Dorchester, 22, Massachusetts
Cumberland, Mary C., Poliomyelitis Laboratory, 1901 E. Madison St., Baltimore, Md.
Cumming, C. M. Wentworth, Carworth Farms, Inc., Congers Rd., New City, New York
DeLaurier, C. J., 507 Hockley Building, Muskegon, Michigan
Donovick, Richard, 790 Riverside Drive, New York, New York
Dreyfus, Clara, 150 West 79th Street, New York, 24, New York
Ehrlich, John, The Research Laboratories, Parke, Davis & Company, Detroit, 32, Mich.
Eisenstark, Sgt. Abraham 37227231, Hq. So., Adv. Ech. V ASAC, APO 921, San Francisco, Cal.
Ferris, Frederick C., 1219 Park Avenue, Hoboken, New Jersey
Feustel, Irvin C., Western Regional Research Laboratory, Albany, 6, California
Finland, Maxwell, Thorndike Mem. Boston City Hosp., 818 Harrison Ave., Boston, Mass.
Fleming, Eleanor, 8027 Blackstone Ave., Chicago, 19, Illinois
Foster, Frances C., 109 West Grove, Midland, Michigan
Gaby, William Lawrence, Dept. of Bacteriology, St. Louis, Univ., St. Louis, Mo.
Grondahl, Virginia, 3225 North Marengo Avenue, Altadena, California
Grubaugh, Karl K., Dept. of Bacteriology, University of Vermont, Burlington, Vt.
Gunnness, Marion, Research and Development, Merck & Co., Inc., Rahway, New Jersey
Guthrie, Robert, Dept. of Bact. and Imm., Univ. of Minnesota, Minneapolis, Minn.
Hamann, Cecil B., 1402 Grand Avenue, St. Louis, 4, Missouri
Hanson, Hazel Jean, Dept. of Bacteriology, Ohio State Univ., Columbus, 10, Ohio
Harris, John C., Dept. of Bacteriology, Kansas State College, Manhattan, Kansas
Heathcote, Charles W., Jr., 605 Price Street, West Chester, Pennsylvania
Henn, Mary Jo, Dept. of Bacteriology, West Virginia Univ., Morgantown, West Va.
Hirschmann, Doris, Western Regional Research Laboratory, Albany, 6, California
Horkin, Cpl. Samuel M., 39259156, 2535 AAF Base Unit, Sec. E, Med. Lab., Regional Hospital, S.A.A.A.C., San Antonio, Texas
Hutchins, James H., 16 East Summit Avenue, Richardson Park, Delaware
Jarchow, Catherine C., R. F. D. 1, Kingsville, Ohio
Jockway, Capt. Wm. S. O-495890, 49th Gen. Hosp., APO 928, P.M., San Francisco, Cal.
Jones, Morris T., 2542 Forest Place, East St. Louis, Illinois
Kaplan, Beulah S., Dept. of Botany, Wellesley College, Wellesley 81, Massachusetts
Kimura, Frances R., 4954 West Pine Boulevard, St. Louis, 8, Missouri
King, Pei-Sung, Northern Regional Research Laboratory, Peoria, Illinois
Klein, Morton, Dept. of Bacteriology, Univ. of Pa., Medical Sch., Philadelphia, Pa.
Kopsell, Harold J., 2010 East Hennepin Avenue, Minneapolis, 13, Minnesota

1945 New Members (Con'd)

Larsen, Alma H., 735 Audrey Drive, Rahway, New Jersey
Leonard, Helen L., 2514 Shelby, Dallas, 4, Texas
Levinson, Lt. Hillel S., O-547880, 2nd Medical Lab. APO 464, % P.M., New York, N.Y.
Levy, Earnest M., Washington Univ., School of Dentistry, St. Louis, 10, Missouri
Lewis, James C., Western Reg. Res. Laboratory, Albany, 6, California
Liggett, R. Winston, Research Lab. A. E. Staley Mfg. Co., Decatur, Illinois
McDowell, D. P., Research Dept., Joseph E. Seagram & Sons, Louisville, Kentucky
Mason, Rachel JoAnn, 2800 West Grand Boulevard, Detroit, 2, Michigan
Menko, Margaret, U. N.R.R.A., APO 787, % Postmaster, New York, New York
Miller, Solomon, %Children's Fund of Mich., 660 Frederick St., Detroit, 2, Mich.
Moore, Mary Elizabeth, White Laboratories, Inc., 113 No. 13th St., Newark, 7, N.J.
Morrison, H. B., Dairy Sect., Univ. of Kentucky, Lexington, Kentucky
Murphy, Marie A., Pittsburgh Filtration Plant, Aspinwall, Pittsburgh, 15, Pa.
Murray, F. Joseph, 1022 First Street, West Lafayette, Indiana
Nagle, Nathan, 1800 West Fillmore, Chicago, 12, Illinois
Novak, Milan, 1853 West Polk Street, Chicago, 12, Illinois
Owen Jr., Wm. L. Capt. 0328291, 319th Inf., 80th Div., Personnel Sec., APO 80, N.Y.C.
Pearson, Ruth R., 3371 Werk Road, Cincinnati, 11, Ohio
Porter, C. L., 924 North Main Street, West Lafayette, Indiana
Pratt, Darrell B., Biology Dept., Purdue University West Lafayette, Indiana
Pulin, A. Bernard, 130 East 93rd Street, New York, 28, New York
Quesada, Judith E., 162 - 14th Avenue, Columbus, 1, Ohio
Roberts, Elizabeth, Grady Hospital, Main Laboratory, Atlanta, Georgia
Salk, Jonas E., School of Public Health, Univ. of Michigan, Ann Arbor, Michigan
Schlecht, John S., 1436 Neil Avenue, Apt. 11, Columbus, 1, Ohio
Schmitz, Betty H., 3764 Chippewa, St. Louis, Missouri
Seesholtz, Sara Jane, 401 3rd Street, N.W., Canton, 2, Ohio
Shapiro, Rebecca L., 305 Washington Street, Brooklyn, 1, New York
Shean Jr., Dudley B., 39089131, 155th Station Hosp., APO 926, % P.M., San Francisco, Cal.
Smith, D. L. T., Bacteriology Dept., Queen's University, Kingston, Ontario
Sparkes, Thomas, R. R. 1, Lawrenceburg, Indiana
Spiegelman, Sol, Dept. of Bacteriology and Imm., Sch. of Med., Wash. Univ., St. Louis, Mo.
Stansly, Philip G., 1937 West Main Street, Stamford, Connecticut
Sternberg, Patricia, 1440 West Bethune, Detroit, 6, Michigan
Swanson, Lt. Robert W., Staff APc Flotilla Five, F.P.O., San Francisco, California
Swanson, Wilbur H., Bacteriology Dept., Stanford University, California
Terrell, J. L., 4080 Detroit, Beaumont, Texas
Tuttle, Ellen E. Lt. L-902098, Billings Gen. Hosp., Ft. Benjamin, Harrison, Ind.
Vinton, Catherine A., Chem. Lab., John Mannell and Co., Ottumwa, Iowa
Wade, Willard E., R. R. 2, Robein Addition, Washington, Illinois
Warner, William F., 48 Manning Boulevard, Albany, 3, New York
Weil, A. J., Lederle Laboratories, Inc., Pearl River, New York
Weinstein, William D., Lt. O-2043174, One Elton Street, Brooklyn, New York
Wheeler, Ralph E., Tufts College Medical School, 416 Huntington Ave., Boston, Mass.
Wheeler, Warren E., Children's Hospital of Mich., 5224 St. Antoine St., Detroit, Mich.
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